The Claims

- 1. (currently amended) A bacterial strain producing polyhydroxyalkanoates wherein the bacterial strain is selected from the group consisting of Ralstonia eutropha, Pseudomonas putida and Escherichia coli, has a periplasmic space and produces polyhydroxyalkanoate and is genetically modified to express a heterologous nuclease gene, wherein the nuclease encoded by the gene is secreted into the periplasmic space and released when the bacteria is lysed, wherein the bacteria expresses a nuclease which is secreted into the periplasmic space in an amount effective to degrade at least 95% of all of the nucleic acid released following lysis of the bacterial cells in less than 24 hours and reduce the viscosity of a cell lysate in a bacterial cell eulture having a density of at least 50 g/l so that recovery of product is enhanced.
 - 2. (cancelled)
 - (previously presented) The bacterial strain of claim 1 which produces a
 polyhydroxyalkanoate to levels of at least 40% of its dry cell weight.
 - (previously presented) The bacterial strain of claim 1 for use in an aqueous process to manufacture poly(3-hydroxyalkanoate) granule suspension which is essentially free of nucleic acids.
 - 5. (cancelled)
 - (original) The bacterial strain of claim 1 wherein the nuclease gene is a heterologous gene obtained from an organism other than the bacterial strain.

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7. (previously presented) A bacterial strain producing polyhydroxyalkanoates, wherein the bacterial strain is selected from the group consisting of Ralstonia eutropha, Pseudomonas putida and Escherichia coli and is genetically modified to express a heterologous nuclease gene integrated into the chromosome of the bacterial host, wherein the nuclease is secreted into the periplasmic space and released when the bacteria is lysed, wherein the bacteria expresses a nuclease which is secreted into the periplasmic space in an amount effective to

degrade at least 95% of all of the nucleic acid released following lysis of the cells in less than 24

hours.

8-10. (cancelled)

11. (withdrawn - previously presented) A fermentation process comprising

adding to a growth medium a bacterial strain producing polyhydroxyalkanoates, wherein

the bacterial strain is selected from the group consisting of Ralstonia eutropha, Pseudomonas putida and Escherichia coli and is genetically modified to express a heterologous nuclease gene.

wherein the nuclease is secreted into the periplasmic space and released when the bacteria is

lysed, wherein the bacteria expresses a nuclease which is secreted into the periplasmic space in

an amount effective to degrade at least 95% of all of the nucleic acid released following lysis of

the cells in less than 24 hours.

12. (withdrawn - previously presented) The process of claim 11, wherein the bacterial

strain is grown to cell densities of at least 50 g/l.

13. (cancelled)

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(withdrawn - previously presented) The process of claim 12 further comprising 14.

growing the bacterial strain to produce levels of at least 40% of its dry cell weight.

(withdrawn - previously presented) The process of claim 11 further comprising 15

lysing the cells.

(withdrawn - previously presented) The process of claim 14 further comprising 16.

using an aqueous process to manufacture a poly(3-hydroxyalkanoates) granule suspension which

is essentially free of nucleic acids.

Claims 17 and 18. (cancelled)

(withdrawn - previously presented) A fermentation process comprising

adding to a growth medium a bacterial strain producing polyhydroxyalkanoates, wherein

the bacterial strain is selected from the group consisting of Ralstonia eutropha, Pseudomonas

putida and Escherichia coli and is genetically modified to express a heterologous nuclease gene

integrated into the chromosome of the bacterial strain, wherein the nuclease is secreted into the periplasmic space and released when the bacteria is lysed, wherein the bacteria expresses and

secretes into the periplasma an amount of nuclease effective to degrade at least 95% of all of the

nucleic acid released following lysis of the cells in less than 24 hours.

Claims 20-23. (cancelled)

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